SEMESTER EXAMINATION, DECEMBER - 2024

Course Name: -B.Tech CSE | **Semester: - V**

Paper Name: - Object Oriented Programming with Java | **Paper Code: -TCS 502**

Time – 3 Hrs + 20 minutes per hour extra time for V.I. & examinees with writer. | **Max Marks-70**

समय– 3 घण्टे +20 मिनट प्रति घंटे अतिरिक्त–दृष्टिबाधित एवं राइट लेखक परीक्षार्थियों के लिए। | अधिकतम अंक–70

Instructions:

- The question paper consists of three sections namely A, B, C. All sections are compulsory.
- Section A- Each question carries **3 mark. All questions are compulsory.**
- Section B- Answer any **5 out of 7** given questions in maximum one hundred fifty (150) words. Each question carries **7 marks.**
- Section C- Answer any **2 out of 3** given questions in maximum three hundred (300) words. Each question carries **10 marks.**

निर्देश:

- प्रश्न पत्र में तीन खण्ड अ, ब, व स हैं। सभी खण्ड अनिवार्य हैं।
- खण्ड–अ में प्रत्येक प्रश्न तीन अंक का है। **सभी प्रश्न अनिवार्य हैं।**
- खण्ड–ब में **सात प्रश्नों में से किन्हीं पाँच** प्रश्नों के उत्तर अधिकतम 150 शब्दों में दें। प्रत्येक प्रश्न सात अंक का है।
- खण्ड–स में **तीन प्रश्नों में से किन्हीं दो** प्रश्नों के उत्तर अधिकतम (250-300) शब्दों में दें। प्रत्येक प्रश्न **10** अंक का है

Section – A

Objective Questions(वस्तुनिष्ठ प्रश्न)

1. Answer all the following questions. **5x3 =15**

निम्नलिखित सभी प्रश्न अनिवार्य हैं।

(i) Who invented java?

a. Alan Kay
b. Andrea Ferro
c. Dennis Ritchie
d. James Gosling

(ii) *How many classes can be defined in a single program?*

a. Only 1
b. As many as you want
c. Only 100
d. Only 999

(iii) Which type of constructor can't have a return type?

a. Default
b. Copy
c. Parameterized
d. Don't have a return type

(iv) Which of this access specifies can be used for a class so that its members can be accessed by a different class in the same package?

a. Public
b. No Modifier
c. Protected
d. All of the mentioned

(v) Which of these keywords is not a part of exception handling?

a. try
b. thrown
c. finally
d. catch

Section – B

Short Answer Questions (लघुउत्तरीय प्रश्न)

2. Answer any five of the following questions in maximum 150 words. **5x7=35**

निम्नलिखित में से किन्हीं पाँच प्रश्नों के उत्तर अधिकतम 150 शब्दों में दें।

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i. Explain Constructor with one program. Explain access modifiers in java.

ii. Explain OOPs concept in java with example. Discuss any three java buzzwords.

iii. What is Thread life cycle with figure? Explain concept of Method overloading and method overriding with program.

iv. Explain Applet and its life cycle with figure. What are the two ways of implementation of Applet with one program.?

v. Describe abstract class and abstract method by explaining with one program.

vi. What is java servlet and its various stages. Explain about MVC architecture.

vii. Explain AWT and its hierarchy in detail. Discuss various types of layout manager.

Section – C
Descriptive Questions (विवरणात्मक प्रश्न)

3. Answer any two of the following question in maximum 300 words. **2x10=20**
निम्नलिखित में से किन्हीं दो प्रश्नों के उत्तर अधिकतम 300 शब्दों मे

i) Explain Package with one program. What are the various event classes, event listener interfaces & methods.

ii) Explain Exception Handling. What are the techniques to handle the Exception? Write a program using try and catch to handle exception.

iii) Explain Swing. Explain various limitation of AWT over Swing. Explain various java swing classes.

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Section – D
Objective Questions(वस्तुनिष्ठ प्रश्न)

4. Answer all the following questions. **10x2 =20**
निम्नलिखित सभी प्रश्न अनिवार्य हैं।

(i) What is the extension of compiled java classes?
a. .class
b. .java
c. .txt
d. .js

(ii) Which method is only called when the browser shuts down normally?
a. start
b. destroy
c. stop
d. paint

(iii) _____ method is defined in Graphics class, it is used to output a string in an applet.
a. display()
b. drawString()
c. Print()
d. transient()

(iv) Range of Byte Data Type is _____.
a. -128 to 128
b. -127 to 128
c. -127 to 127
d. -128 to 127

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(v) An _____ statement can be used to access the classes and interface of a different package from the current package.

a. instanceOf
b. extends
c. import
d. implements

(vi) Which of the following is the correct way of importing an entire package "pkg"?

a. import pkg.
b. import pkg.*
c. Import pkg.
d. Import pkg.*

(vii) What type of methods an interface contains by default?

a. abstract
b. final
c. static
d. private

(viii) Subclass also known as?

a. derived class
b. base class
c. child class
d. Both a and c

(ix) Which of these methods are used to register a keyboard event listener?

a. KeyListener()
b. addKeyListener()
c. addKistener()
d. eventKeyboardListener()

(x) Which of these events will be notified if scroll bar is manipulated?

a. ActionEvent
b. AdjustmentEvent
c. ComponentEvent
d. WindowEvent

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